**Equations and Expressions: Lesson 2** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Aim: Student will be able to use expressions with variables to describe situations.**

**Do Now:**

If is 6, what is:

**Building Expressions**

1. Clare is 5 years older than her cousin.
   1. How old would Clare be if her cousin is:
   * 10 years old?
   * 2 years old?
   * years old?
   1. Clare is 12 years old. How old is Clare’s cousin?
2. Diego has 3 times as many comic books as Han.
   1. How many comic books does Diego have if Han has:
   * 6 comic books?
   * books?
   1. Diego has 27 comic books. How many comic books does Han have?
3. Two fifths of the vegetables in Priya’s garden are tomatoes.
   1. How many tomatoes are there if Priya’s garden has:
   * 20 vegetables?
   * vegetables?
   1. Priya’s garden has 6 tomatoes. How many total vegetables are there?
4. A school paid $31.25 for each calculator.
   1. If the school bought calculators, how much did they pay?
   2. The school spent $500 on calculators. How many did the school buy?

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#### Are you ready for more?

Kiran, Mai, Jada, and Tyler went to their school carnival. They all won chips that they could exchange for prizes. Kiran won as many chips as Jada. Mai won 4 times as many chips as Kiran. Tyler won half as many chips as Mai.

1. Write an expression for the number of chips Tyler won. You should only use one variable: , which stands for the number of chips Jada won.
2. If Jada won 42 chips, how many chips did Tyler, Kiran, and Mai each win?

**Exit Slip**

A plant measured inches tall last week and 8 inches tall this week.

1. Circle the expression that represents the number of inches the plant grew this week. Explain how you know.
2. For the expression *not* chosen, describe a situation that the expression might represent.